LABORATO	RY CHEMICA	L FUME HOOD	DATE OF PREVIOUS INSPECTION DATE THIS INSPECTION PERFORMED BY (Name)
LOCATION OF HOOE			TYPE OF HOOD Auxiliary Standard Air supply Other (specify)
GENERAL TOXICITY RATE Low (STEL > 1, 00 0 PPM)		AL USED IN HOOD High (STEL < 1 0 PPM)	CROSS SECTIONAL AREA AT FACE Height:feet x Width:feet =feet ²
	(Readir		/ELOCITY READINGS e center at each of the prescribed frontal grids.)
			Exhaust on, sash fully raised. (Exhaust flow value equal to zero CFPM) Standard Fume Hood Exhaust Flenum
FPM FPM	FPM FPM	FPM FPM	FPM + FPM + FPM + FPM g =FPM average. Average value FPM.
FPM	FPM	FPM	Work Surface Airfoil
			Exhaust on, sash raised 18 inches. (Readings may not vary more than ± 20 FPM from average value.)
FPM	FPM FPM	FPM FPM	Average value FPM. (Value should be 80-120 FPM.)
 	<u> </u>	. 11	Exhaust flow value CFPM. Exhaust on, sash 6 inches above work surface.
			(Readings shall be at least 2 but not more than 3 times the face velocity when sash was fully raised) Average value FPM.
FPM	FPM	FPM	Exhaust flow value CFPM
		EXHAUST R	EADING WITH SASH CLOSED
			Exhaust flow value CFPM.
TITANIUM TETRACHLORIDE INDICATION OF FLOW PATTERNS AT HOOD FACE. Satisfactory flow patterns evident. Unsatisfactory (describe):			ONE-MINUTE SMOKE BOMB DISCHARGE Effective smoke removal with sash fully raised. Effective smoke removal with sash 6 inches above work surface. Effective smoke removal with sash closed.
			If unsatisfactory, describe:
This has the first		a with marked at 1	APPROVAL DATE
This hood is found to be toxicity rating as specified. This hood has been foun	d above.		general

Chemical Fume Hood Testing Procedures

Testing Procedure

- 1. Position the sash fully raised.
- 2. Puff smoke around the opening of the hood by using Ventilation Smoke Tubes. No smoke should come out of the hood.
- 3. Divide the fume hood opening into nine squares.
- 4. Turn the Alnor thermoanemometer on by pressing the ON/OFF switch. The instrument is in measurement mode once the power up sequence is complete.
- 5. Measure the velocity of the air at the center of each of the nine squares. This is accomplished by placing the probe of the Alnor at the center of the square so that air flow is across the sensor. Hold the probe directly outward and hold the probe directly in line with the sash. Allow the Alnor time to stop fluctuating between readings. When a fairly constant reading is shown on the Alnor, record the reading in the applicable square on the form. Continue taking readings until all nine are done.
- 6. Position the sash so that the fume hood opening is 18 inches.
- 7. Divide the fume hood opening into six squares.
- 8. Follow step 5 for the six measurements.
- 9. Position the sash so that the fume hood opening is 6 inches.
- 10. Divide the fume hood opening into three squares.
- 11. Follow step 5 for the three measurements.

Paperwork

- 1. Fill out the required information on the "Laboratory Chemical Fume Hood Inspection" (Form S&E-283).
- 2. Fill in the readings in the appropriate squares on the form and write in the average reading.
- 3. If a fume hood does not pass, tape a Warning sign onto the sash, and remove or cross out any earlier inspection stickers.
- 4. If a fume hood does pass, fill out an inspection sticker and affix it to the front of the hood. The metal frame of the hood is a good location for the sticker.

Determining Whether to Pass a Hood

The following three conditions must be met in order for a hood to pass:

- 1. The average face velocity with sash at an opening of 18 inches should be 80-120 fpm.
- 2. The average face velocity with sash at an opening of six inches can not be greater than 300 cfm.
- 3. Smoke can not escape out of the hood into the room.

WORKING	
HEIGHT	
APPROVED FOR:	
Storage Only	į.
General Chemistry	
Radioisotope	
Carcinogen /Toxic Chemical Work Face Velocity:	
fpm Date of Re-inspect:	
Inspector: Alvin Harding, Jr.	
	Insp

Inspection Sticker